Paper March 9 Inaugural Essay Wounds of the Articulations. Nor the digne of Doctor of Medicine in the University of Phincyloadia. -

Hughart & Montgomery

Commune qued est, no tenum colum dicas

To one not acquainted with the fact, it may appear somewhat strange, that in the records of largery there is scarcely to be found a satis factory, treative on wounds of the joints.

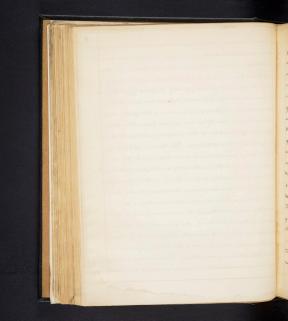
Few authors have touched upon the subject, and those few in a manner so currary, as to leave our knowledge of those accidents, quite limited Whether their silence be owing to the extreme simplicity of their treatment, not differing in any degree from wounds in other parts; or to their occasional immediate and unexpected fatality, not admitting of practical in vertigation, 5 shall not take upon my self to determine Reshaps a more pulpable reason may be found in the melancholy fact, that there is no postion of the human dissection more grapply neglected by the student of anatomy, or less generally under stood by the young practitioner of surgery, than the structure and vital habitudes of the articulations, ---

at continue of a junt wany be defined a devision or functionation of these expanded liquinist. In medicition to the general property of extension of the desired of the desired forms and liquid continued for the section of the action of the continued of punctioning instruments, or instead by punctioning instruments, or instead by major mechanisal wideness. The syniterior attendent on the milder formers of these injuries are not preselved, but such as accompany any unpless wrough a point invarianced heat of the part matures, terminated in a period invarianced heat of the part matures, termination and more a less extra view atting or of opposition. The more agreemented against the such as a continue was atting or of forming the such as the action or of periods.

The sungern is generally on added to determine whatever the cavity of the joint be eigened on not by the direction of the wound, and by the direction of the wound, and by the direction of Egoseth for him however to be mistaken in this plant as it very much record that the tribales is their functions the bureau sunce.

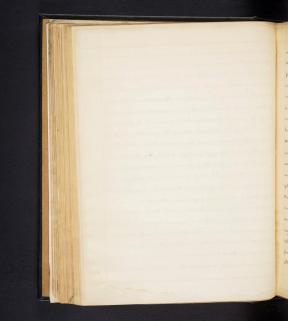


cares when this directarge might readily have been mistaken for true synovier. Should this circumstance not have been noticed at first, the surgeon may cause it againsto flow by gently progress upon the part. In our examinations of such injuries we cannot be too cautious or sparing in our use of the probe. much unious injury doubtless has arisen from the too officious application of this introvenest in the hands of ignorant practitioners. The tender adherious which may have formed or are beginning to forme are broken up, and the initability and inflammation of the wound greatly augmented. as the information gained by such interperent can lead to no prair tical conclusion, we about in doubt ful cases treet the wound as though it were neally a care of outstan of the capsule. - In general says Bayon wounds of the joints are not clargerous of property and timously attended to; but to this general rule we must admit many exceptions. The records of rungery. furnish immumerable in stances in which the most



fatal and alarming consequences around from wounds appearently the most simple, so that in drawing a compan ative estimate of the different terminations of recorded cases, we are at a logs to determine whether to consider the majority as anding favourably or otherwoon. I knowledge of there facts, should make us very cautious in expressing our prognosis: in forming which we must be guided by the extent of the wound, size of the joint, the vicinity of important nerver and blood vessels, the constitution of our patient, his age and previous habits, the climal and season of the year, fairlity of procuring suitable accommodate tions, and the likelihoost of his being well attended to. Downterways and revopula says Honner are insuperable bass As offerting a sure under any circumstances. -The first and grand endication in the treatment of wounds of the astrolations, is to guard against inflammation and its consequences; to an our estenott and avour to prevent supportation, and head the wound by the first intention. To accomplish their ends, we must remove all foreign

substances, seems of me agrang Atra blesting versels,



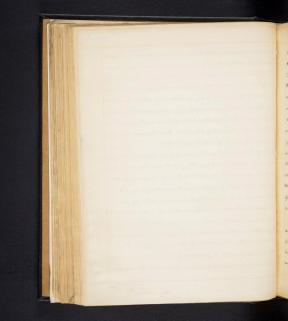
approximate true divided adges of the wound and votain Ham In Atent situation by allhesive streps. The limb being placed in a parition most favourable for relaxing the integer ments, and arest care says Bayer is to cover the wound with compresses wet with some resolvent liquid, and over there a bandage should be applied moderalely tight. By this made of treatment he has seen many cases antirely healed up in the source of five or six days. In sed dition to Are treatment here proposed we would particularly recome mend the application of lint forevously differed in blood over the wound. This is one of the most effectual means me can make use of for excluding the atterosphere, which so often forover indirectly an exceeding cours of the inflammal tron. Local and general bleeding, cold evaporating lotions, moderate purging, absolute mest, strict artiflogistic regimen, are all to be attended to. The local treatment must be regulated by the notions and extent of the wound. __ The feelings of Are patient must be committed, an if the pain be materially allowated by this or that application. its employment will hardly over be wrong. Blistins



have been memorisental, and when well times are no doubt builting, but judging from analogy as would say, that thing stamped were spipilist whilst them are almost may symptoms of ance inflammations butterns should never be west of thing can presidy be dispersed with modificat possibles have been succeptibly as easy when the excelling have augurented on paintly as companied with great their of this provide cleanality the limb has been highly memore members by our grown furt authorities.

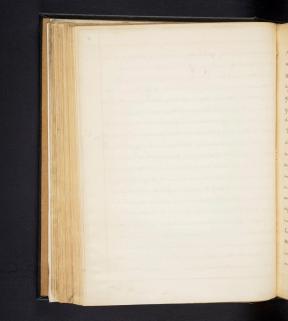
Him affect of selds our accordance to be formate over littles, pass or powered in Atta, camily of Atta, joint, was alreaded immens dischily, womened its by madesing from in closing with 4ther absorpt, their land formation is not cancellered by the bast from their is not cancellered by the power works with the continues of their land formations to discharge this fluid, Attan to suffer it to remain accel bases, one of the survey of continues to discharge this fluid, Attan to suffer it to remain accel bases, on one has some of continues to discharge and have no a some of continues.

Boyer Minche Arn engresses of the joint by no uneaux so huntful as the stagenation of the few unterin it. Them is a runaule of finglesser globane particularly to be runnembered in sen ferration, it is, that the surgeon

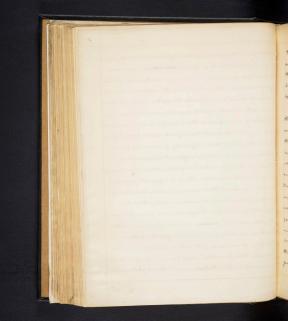


should, a campully watch the condition of his festient when the symptoms of inflammation are about subriding. The system will then feel the effects of the autiflogistic treatment and will registly sink, if the surgeon like a vigilant sentimal closs not keep always on the looke out and by a well timed interpereur prevent a succession of injurious consequences which of necessity must destroy his patient. Let Atris preside we stroubt give old wire, circhona, betters, suscellent food, stime. ulating applications, cleansing poultices, to te When we find that an chyloris will be the un avoid. able correguences we should choose that position for the limb most likely to prove unful to over protients if it be an albow the fore arm should be pleased at right, angles if Ahr Knee. Ahr leg should be extended.

lifter their general remarks on wounds of the articulation, we will provide to the some welcouting of particular somewhat and we shall consider them, both in making with the somewhat their both formal them would then welcout them and the consideration to the involvement which accomplany them and the consumer thanks are in the consideration of the consumer of the c

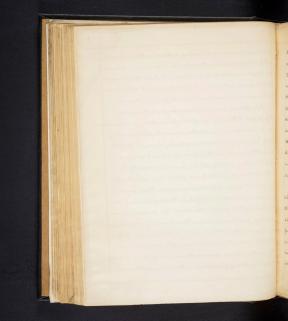


I shall fourme that division of the subject marked old by properor Roger, and speak first of Semple punctured wounds. By a simple pursuesed wound we understand, one formed by a namon pointed instrument, the external origine of which beans no relation to its elefath. This description of wounds is , caeteris paribus, much more danderous and difficult of management Ation simple incired wounds. This may be are ited to their great depth; to their fung done to the fibres; to the difficulty of removing foreign substances and of making sufficient examination. Enfrenierce teaches us that inflammation more readily occurs in such wounds. There is a popular preguetice in parour of opening throw wounds, which is certainly very princious. From an enousous belief that the difficulty of heating such cirjuries, arises from the norrow neps of the enternal operating, some surgeous are in the habit of making free incisions for the purpose, as they ways of converting it into a simple incered wound. This practice says farmed looper is in no win to be in italied ... With out fastles noting



the absence entions of many authors on this subject? an fully conceined that the best promoter is to bring the position contact, to endeavourts head the wound by the first intention, and to pay strict attention

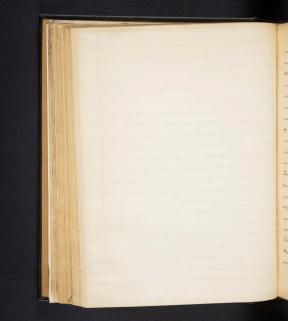
to the general treatment here to four mentioned. Simple incised wounds some next in order, they differ little in symptoms from those just mention ed, and require much the have treatment, any thing we could have say would amount to little more than a recapitulation of what has been said when treating of wounds in general, or would be anticipation of what I have get to say when on the treatment of complicated wounds. They present only one indication, which is that of healing the wound by the first intention. The prognosis is very severally favourable when this has been attended to - Under Atm Attind and last deversion of this subject we will consider complicated wounds of the joints. time gum that wounds of their parts present nothing premior in their symptoms or



the trust of stall one faction consider them as a distinct offering them by orthogonal Medica offering relative account. They may there he training the many them he he without general considered as completioned or simple construct warmed amount of the matter of the matter of the matter of the matter of the matter.

We know a home hinted Heat wounds of the articulation of not always terminotic persons ally, and though homeone timple they may be in their commencement; get if the pertent connection be not soon, or he close not keep the part fort perfect by at rest, serious course grows may arrive and the employees before immensional and the employees appear immens thatily, frenish or be sound only by ample this im-

When we consider anys thoyers the at almost all executes of the joint that how her immediately elected and in which them is no protection or the prior interpretary with by the prior interpretary, whit by the prior interpretary, and that in cases whose assumed means the prior interpretary that in cases whose assumed here we want to be a supplificulty the consequences to the infraestion of air on the interpretary of any war in the interpretary of a symposium.



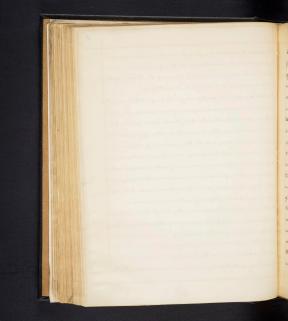
membrane, and to the cartilages and fatty matter within the joint. We know by experiences continues the sum author, that the action of air an parts not neterally accostoned to its influence and expecially serous membranes is to exect implame mation. In the mest senteur he says that win cannot be considered as the only cause of inflammation of joints that are wounded, for it often succeeds to wounds so namow and oblique that this fluid cano not enter, in other cases inflammation occurs too suddenly to have been produced by its in fluence. The is persuaded that wounds of the castilages and bones, improper dressings, arrows in regimen, morbid condition of the patient, may all contribute to the origine of inflammation, and per haps it may arin from one of the above mentioned causes Little experience is necessary to convince any our

With experience is necessary to consince any our thirt the view taken by this author of this subject are incorrect. Its negards his idea of air always personing



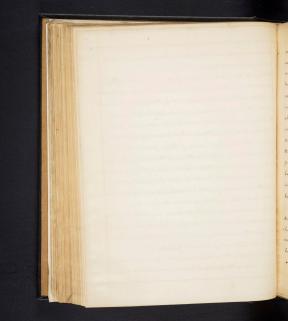
the cause of irritation and inflammation when applyed to empress not accordingly to its influence, this is an opinion long since exploded, as may be shown by the experimenation of the Physick and others.

Busides do we not dayly see joints ampertated and the synovial membrane exposed for a considerable length of town in contact with this fluid, and get no bad consequences result. I count in the applicability of his would seem who to the case in question . -That air count be always considered as the cause of inflammation in wounded joints is now ask mitteet. Implantamation of a very remous character may and often done occur in joints that have never been warns ded or mechanically injured in any way -Barides we cannot concer in the belief that enflaws mation ever arises from wound , of the cartilages . There substances owing to their want of vareularily forever weit the influmnatory process. Cartilages it is true may be absorbed, and the heads of the bones their brought in contact may cause inflammation, but



this is an exit nentting from the absence, not the presence, of cartilages.

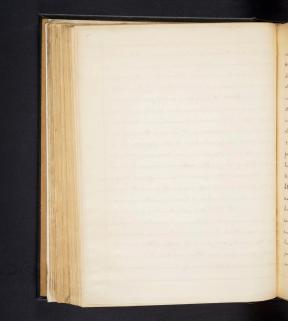
of their it be not the action of the air on the exposed synovial membrane that produces those aggravated symptoms attendent on wounds of the joints, to what cause it may be asked, can we attribute them? We may very noturally, and other the with more season suppose that the estravarated blood, if not the only. is the most common cause of their production. This fluid being different through the cauty of the joint and coming in contact with the atmospher, in a short time undergoesthe putrifactive fermentation, and thus eventes great insitation and inflammation of the delicate syrrowal men brane - - - -That air when admitted to come an contact with coagulated blood will vender it putrice and consequently irritating, no one will pretend to dury . So well satisfied was pelletan of this feet that he made it a rule never to open a tumour containing extragarated blood unless it was



so situated that it could be cutively removed. If the air be excluded from such blood it will remain unaltened for weeks on wittle it is absorbed. Should the integenments however be divided and air admitted into the cavity containing blood, it will soon putrify and become initating, producing implammation and the most extensive sloughing - This view so pawas & am enal last to learn is the original suggestion of Dr Thomas Harris of the unted state many; who had ample opportunity of testing its verasity during our late wars. When Ater precaution of closing the external wound had not been observed or the effect blood suffered to remain in the joint, he almost invariably found the symptoms both court tutional and local queatly aggravated

the jointh, makes the following observation, "laperime is has for used that should runch blood be coloreassted with the entry of a joint, it will either love its living formalph and their inital like any other extranseous substance, or by bucoming assesses, it

or Will son when treating of warmeds of

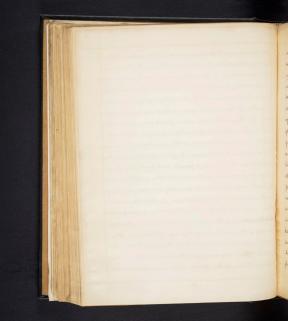


will distroy the smoothneys of the Egrowial membrane to which it is united, and thus produce analylosis. allhough it may appear presumption were to differ from so high authority, get I count come with the Bruntively. His idea of Atra blood losing its vilality is cornect, but that it ever becomes was enlar in the joints, is an error to which few pather ologists of the present day will yield their assent. I am durpose it to Staink indeed that had it not been for his great partiality for the of inions of no Hunter, his own experience would have taught him that The nevere was town. I cannot believe that the blood becomes vascular in the cavity of joints, or ad hears to the synovial membrane. This membrane may from inflammation llenow out congulable lignish, and their become thickened and rough but from the natural resetion which bubicates its surpay, and the almost immediate putripactive furmentation which takes place when the air has not been excluded, I am led to

the conclusion that there would not be sufferent being for any conseccion to be formed between the blood and

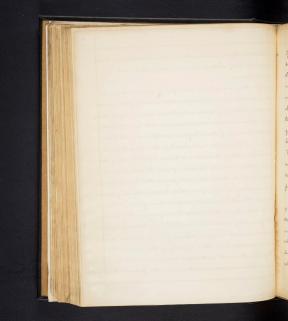
this membrane. If the external wound has been closed immediately and the air not admitted, we have a length of time, and yet us back consequences needs Led. W" It by relates one care in particular where blood had insimuated it silf in the capsular lighment get, it was absorbed without the smallest inconvenience. most writers days samuel booker, speak of collections of blood in the eavily of jounts, but he thinks it a very vane occurance, tumous in the neighbour hood of joints and such as are generally considered as with in the exposular legament, are , he Attunks, with out it - Sir et booper when treating of compound dislocations of the ancle joint observes: that the causes of the violence of the symptoms, are the wound which is maid into the joint and the great effort required for its repair but makes

no merition of the blood as being an important



agent in their production. No indeed am I able to find any author who has expressed such an opinimion.

After this exceptical digression let us return to Atra consideration of complicated wounds of the joints On the fifth day and sometimes some symptoms of inflammation commence, with an aggravation of all the symptoms before mustioned. We have grain in the head and back of the neck, nauren and wounding, Her skin is time and shining, the lips of the wound become pute, bloated, and elischarge a Atrin sanious fluid, Mr. towny becomes parcheel and dry, of a dark brown, or pale gellow colour, Atrist, hurried respiration, fever, delinium, and sometimes Act arms; Ahr synovia is inevared in quantity, and becomes their. To othere sympe tams receed supposation, pris is formed, and accumulated in the cavity of the joint, the ligaments and castilages become relaxed, pain becomes excusiating and the patent dies



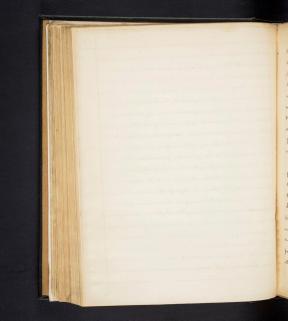
If the constitution he able to eventur out the first symptoms, it them agreemes a chromic form. Improved adayly increasing hyperforms of heatie come on, colliquation chievarbora fineways the countername, and without are and austionywhich destroys the fection could get send austiony which destroys the fection could get from by dispersion of the forest of the send of the symptoms gradually subvice and a cum is brought about but with analysis. Not unforgunity says or thousand them is an anythernatous welling analysis of the unfortunity and anythernatous welling amount of the whole lind and procured as welling amputation in cases where its secured recessary for the preservation of the individual.

In the treatment of complete steel member of the points, the anost viewover measures and to he subspite for the relationst the guard under all adopting for the relationst the format under attention, and format influencements and format influencements.

Minister the presentation and format information, which also have been freely both levels for the freely both levels for and for the formation of the workest to which blood letting may be, so has been carried, many



be learned from the parisal of a case recorded in Mu works of M. Hefren, - in which it is stated Went the puteent lost two hundred and fifty owners of blood in sween days, and that the food abound during that time, was so small in quantity and simple in quality, as not to have been surpassed even by the dut of Valsalva. We should give cooling drinks, elysters, wild openent medicines, exaporating lations to the limb, and after the symptoms of acute inflammation have subsided, a large blists placed over the wounds and above all keeping the limb perpetty still. butteres, as above stated should not be used in approximating the divided edges of the wound or when and we comet be too careful in avoiding the teapsults and confining the stitches to the integenments alone. When pour is formed we must speedily evacuate it by making fine invisions in the most depending parts. David Himks we should not be auxious to evacuate the pres, and that when we consist longer delay discharging it a trochar should be used.



Peter and Boyer are of a different opinion, they recommend temperications to be a made and all foreign matter among healty warrhead out, then opposite blook numb furticularly be necessary, he are opinion rays Bayer, where are absent of a joint has remetted directly from inflamentation of a joint has remetted directly from inflamentation for established by a warmed the appreciate personal presentation of mentions of the appreciate personal transfer warmed to went out the pure. At this personal transfer warmed to went out the pure. At this personal enrolliment foundations may be cred with advantage, in order to clear the warmed.

to a general state, and a many protected our ment give a general state, and as wine, partir and bounds. It am entired application at this provide Boyer recommends to decention of binchman and branchy. I gran what arounds commot her breaked by the first intention, but must acceptable gupplemate. Our first in charteen in the treatment of such injuries is, to cauch for the estimation of such injuries is, to cauch for the estimation body and evaluation at its acceptance of part to produce anima enits.

for how ever harmley a ball may be white't lodged in a muscular part or amongst sellular members, in the causity of a joint it connect fail to excite the most michest appropriate. The hold cannot be felt by the forobe or if it he finning imbraked in the head of the bone, to so not to be moused until to me to have forobe in force, one then let suffer it to remain, in hoges that suppressed ming positives are to he applicate and influenting symptoms thefore content. The frankling of stuffing the warrest with center. The frankling of stuffing the warrest with the tirt is to be son demonst. The last importance is to be son demonst. The last importance is to be so and exercising the limb and keeping it projectly, still.

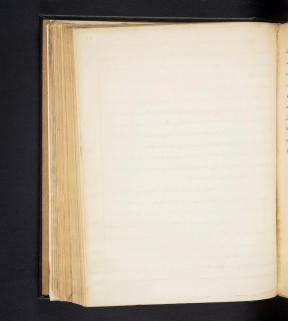
Surgeous are not agreed as to the profuncts of aufentations in morning of this joints, one install cantition be any algiment, real laid claus; are must in all cares be governed by the we have of the agreement by the well are of the agreement, but of the well are of the arealting must the latter of the arealting and water of the ingery, close.

There can be little doubt of the proposely of any few tation when the wound is witnessen and the principal blood usuals one negotioner, and the some the better

But upon the whole it is difficult to disjulion the propriety or impropriety of the operation. Basis are misorable where their three has been bloomed in might aught completibly with the Brigh and get a time was readily accomplished. Operations have been determined one, but prevented by some accident, and deeping the delay, the Isother has recovered.

We must indeed leave it to the good judgment and previous experience of the practitioners. - - - - - -

of me writing the above, I have made in our of the Army york journals a shoot truster on mounts of the joints by bouton Brown, he appear to disoppose about or enterely of black litting in the treatment of their injuries



as I am not convinced by any arguments he has addressed, of the impropriety of the treatment hours in veccommended, I shall make no alterations or amendments. We also make more than to Browner, with to see our potents distroyed by the deflecting plans of breatments. We approve highly of all the local applications recommended by that gentlement, but cannot think it says that gentlement, but cannot think it

